## SECRET

SOME THOUGHTS ON THE PROBLEM OF SCIENTIFI

## AND TECHNICAL INTELLIGENCE

- l. In any pountry's security system there the elements upon which the sountry is question places great store. These are truly its securets of security.
  - 2. Comerally speaking these secrets of security if they are not in themselves scientific and technical at least rest on scientific and technological developments. Askyourself: Knowledgevor what twenty US secrets or security would I be nost concerned to keep from the USSR? How many of the twenty really lie outside the scientific/technical area?
  - 3. The importance which a country attaches to any of these elements in its security system is an index of that country's desire to keep them secret from all outsiders. Thus the more important they are the more difficult they become as intelligence targets.
  - 4. The security measures in operation in the USSR have been peculiarly successful in the scientific/technical area. It would be my guess that in no part of our knowledge of Soviet secrets of security is the ratio of fixed points to voids so large. In the matter of the gadgets around which Soviet air defense capabilities are built, the paucity of fixed points is dramatic in the extreme.
  - 5. In the last analysis the mission of intelligence is to draw the meaningful and objective generalization from the data.
    - a. If the data, or fixed points, are missrous and the voids between them spell, then meaningful, objective, and probably correct generalizations can be drawn.
    - b. If the data, or fixed points, are few and the voids between them large, magningful generalizations can still be drawn. But who is to say that they are objective and/or probably correct? The is to say they are snything but pure fiction?

- 6. In case 30 above, the generalizer, minimally confined and directed by fixed points, may be engulfed by forces wholly extraneous to the problem at hand. It is here that he may be consciously or unconsciously taken over by his hopes, his wishes, and his fears, or by those of his friends or the institution be works for. (I refer you to the men who have designed maps of the beavens and who have generalized the minoular Orion and his club, belt, and lion skin from a docum or so stars.) What he comes up with is something for different from and usually far more or less than the measur suggestions of the fixed points. The added something is not from the date; it is from him.
- 7. As long as the national intelligence community can fix only relatively few points in key scientific and technical developments of the USSR and as long as the voids between these points are very large, generalizations by any single individual or single intelligence institution may be dangardualy shared by individual wish or institution policy.
- 8. Ask principally "What would I wish if my figure were interwoven into that or one of the armed pervious?" You would wish to be boat down outsit or its post in existence were purify that could deliver enough letter power to desire a stagle asked and do it will get located.
  - Ask yourself the next questions what he is to get or wish! If you are in intelligence you may do two things.
    - to assure yourself that your service y'll pet the funds to make it the best demn out it of its sort in acceptance you will not play down the enemy for will build him up servicelly in gross bears of his offensive capability.
    - To search yourself that one or we let the best darm butfit is the out. It will arry sut the state on you begin to take sure the snew You will cake they notable?

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evaluation your service pay is cruelly hurt in the clash. You finally his the point of his defensive espabilities at the place where the curve of your wish intersects the curve of spay feer. The fixed points are so joy that you has easily area your curves to soccaratate

- 10. When you have done these two things you have done little more than describe the ideal energy: the suemy big enough to uncreams the perfection of your outfit, but an energy who is nevertheless a push-over in a shouldon.
- 11. You can to this in the field of scientific and technical intelligence on the MSR, and no one can say you may so long as the ratio of fixed points to voids remains what it is
- as to the virtues of assigning to given departmental intelligence organizations a "primary" responsibility in any of the specific areas of eccentific and technical intelligence. All along I have feared the generalizations, Any, that CHI may make of the fixed points and voids re Soviet underester egrfare techniques, that G-2 may make re Soviet tank design, that A-2 may make re Soviet CCI and A-2 radar and ALA. I have however been somewhat comforted by realizing that if any single service comes up with a wishful generalization, this generalization service to opposed to the wish of another service; that the star service will possess all the data of the first and that it will be separate of drawing its can variant or opposing generalization.
- bility and if at the some time it possesses provosed information which it may or may not share with other services and if it shoots not to share, the chances of another service inveloping a variant or opposing generalisation have shrunk accessionably and may have shrunk to approximate serv.
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we do not take out insurance against the acceptance of a generalization that must perforce partake heavily of the wish, we are asking for trouble. If I were carrying the statutory responsibilities of the DOI the minimum insurance I would take out would be as follows:

- a. Keep C/SI in business pretty much as it is today - even endeavor to strengthen some of its divisions. The ones I would strengthen would be those dealing with the most important subject matter irrespective of whether another agency had been awarded "primary" responsibility in this subject matter.
- b. Set up a machinery to insure that no one scientific/ technical intelligence outfit withheld information which it may have developed and which it found useful in drawing its own generalizations.